Contents of Volume 49

Volume 49 No. 1 July (I) 1999

PAOLO ASCHIERI / Real Forms of Quantum Orthogonal Groups, q-Lorentz Groups in any Dimension 1–15

F. BONECHI, N. CICCOLI, R. GIACHETTI, E. SORACE and M. TARLINI / Unitarity of Induced Representations from Coisotropic Quantum Subgroups 17–31

MING-HSIEN TU, JIIN-CHANG SHAW and CHIN-RONG LEE / On Darboux–Bäcklund Transformations for the Q-Deformed Korteweg–de Vries Hierarchy 33–45

V. K. DOBREV and M. EL FALAKI / Quantum Group $U_q(A_\ell)$ Singular Vectors in Poincaré–Birkhoff–Witt Basis 47–57

J. BASTO-GONÇALVES and I. CRUZ / Analytic k-Linearizability of Some Resonant Poisson Structures 59–66

P. A. HORVÁTHY / The Topology of Nontopological Chern–Simons Vortices 67–70

IOSIF POLTEROVICH / From Agmon–Kannai Expansion to Korteweg–de Vries Hierarchy 71–77

ALEXANDER I. BOBENKO and YURI B. SURIS / Discrete Lagrangian Reduction, Discrete Euler–Poincaré Equations, and Semidirect Products 79–93

Volume 49 No. 2 July (II) 1999

MING-HSIEN TU / Q-Deformed KP Hierarchy: Its Additional Symmetries and Infinitesimal Bäcklund Transformations 95–103

R. J. FINKELSTEIN / Observable Properties of q-Deformed Physical Systems 105–114

ALBERT SCHWARZ / Quantum Observables, Lie Algebra Homology and TQFT 115–122

G. A. VILKOVISKY / Master Equation in the General Gauge: On the Problem of Infinite Reducibility 123–130

EMIL HOROZOV and ALEX KASMAN / Darboux Transformations of Bispectral Quantum Integrable Systems 131–143

D. A. KOROTKIN and V. B. MATVEEV / Schlesinger System, Einstein Equations and Hyperelliptic Curves 145–159

JINTAI DING / A Remark on the FRTS Realization and Drinfeld Realization of Quantum Affine Superalgebra $U_q(\hat{\mathrm{osp}}(1,2))$ 161–171

Volume 49 No. 3 August 1999

P. B. A. LECOMTE and V. YU. OVSIENKO / Projectively Equivariant Symbol Calculus 173–196

H. D. CORNEAN / On the Essential Spectrum of Two-Dimensional Periodic Magnetic Schrödinger Operators 197–211

D. B. FAIRLIE and A. N. LEZNOV / The Complex Bateman Equation 213–216

MICHAEL BAAKE / A Note on Palindromicity 217–227

PAUL FENDLEY / Airy Functions in the Thermodynamic Bethe Ansatz 229–233

A. IFTIMOVICI and M. MĂNTOIU / Limiting Absorption Principle at Critical Values for the Dirac Operator 235–243

MICHEL DUBOIS-VIOLETTE and MARC HENNEAUX / Generalized Cohomology for Irreducible Tensor Fields of Mixed Young Symmetry Type 245–252

D. SHKLYAROV, S. SINEL'SHCHIKOV and L. VAKSMAN / A q-Analogue of the Berezin Quantization Method 253–261

Volume 49 No. 4 September 1999

XUFENG LIU / Some Tensor Product Representations of $U_q(\hat{sl}_2)$ at Roots of Unity 263–278

SHIGERU FURUICHI and MASANORI OHYA / Entanglement Degree in the Time Development of the Jaynes–Cummings Model 279–285

AGAPITOS HATZINIKITAS / The Gravitational Chiral Anomaly of the Spin-1/2 Field in the Presence of Twisted Boundary Conditions for Ordinary Field Theory 287–296

DONGHO CHAE and HEE-SEOK NAM / Multiple Existence of the Multivortex Solutions of the Self-Dual Chern–Simons $CP(1)$ Model on a Doubly Periodic Domain 297–315

ITALO GUARNERI and HERMANN SCHULZ-BALDES / Intermittent Lower Bound on Quantum Diffusion 317–324

ZOLTÁN BAJNOK / Defining Relations for W-Algebras from Singular Vectors 325–336

DETLEV BUCHHOLZ, MARTIN FLORIG and STEPHEN J. SUMMERS / An Algebraic Characterization of Vacuum States in Minkowski Space. II. Continuity Aspects 337–350